FGL II

HIGH-SPEED DISPENSER WITH VISION CORRECTION

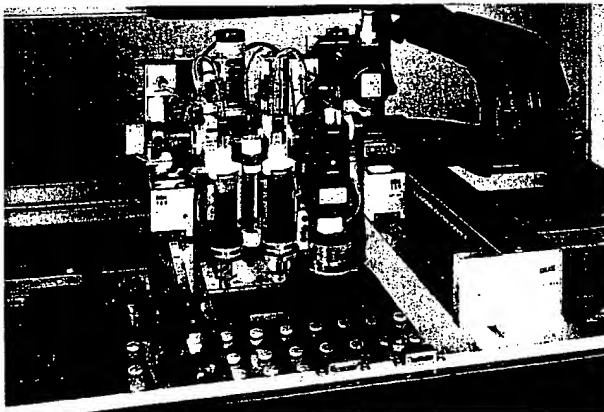## FGL II-4000

FEATURES
- ● Vision correction system
- ● Computer-controlled temperature
- ● Glue Dot Feedback Control (pat. pend.)
- ● Programmable syringe action
- ● In-line system compatibility
- ● Preheat timer
- ● Width of the in/out conveyors and processing station can be changed in one operation.

The FGL II is the pre-placement system for SMD. Equipped with a field-proven vision correction system, the FGL II fulfills the demand for a high-speed, precision glue dispenser.
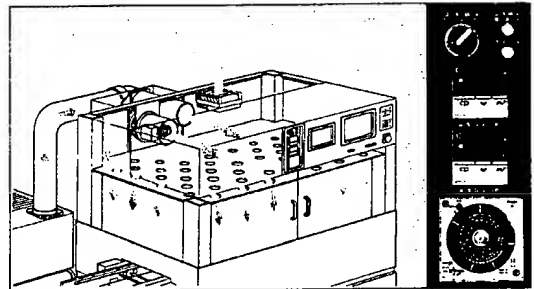

■Vision Correction System

Fuji has incorporated its original vision correction system into the FGL II as standard equipment. With modern high-density circuits, speed alone is no longer acceptable. The FGL II fulfills the demand for precision by automatically aligning the placements to the artwork.

■Computer-controlled Temperature

Changes in temperature often affect the viscosity of the glue and result in inconsistent glue dispensing volume and excessive stringing. To prevent such problems, a ventilation fan and heater, controlled by the FGL II's on-board computer, ensure the optimum temperature for consistent glue dispensing. An optional cooler is available for machines in a high-temperature environment.

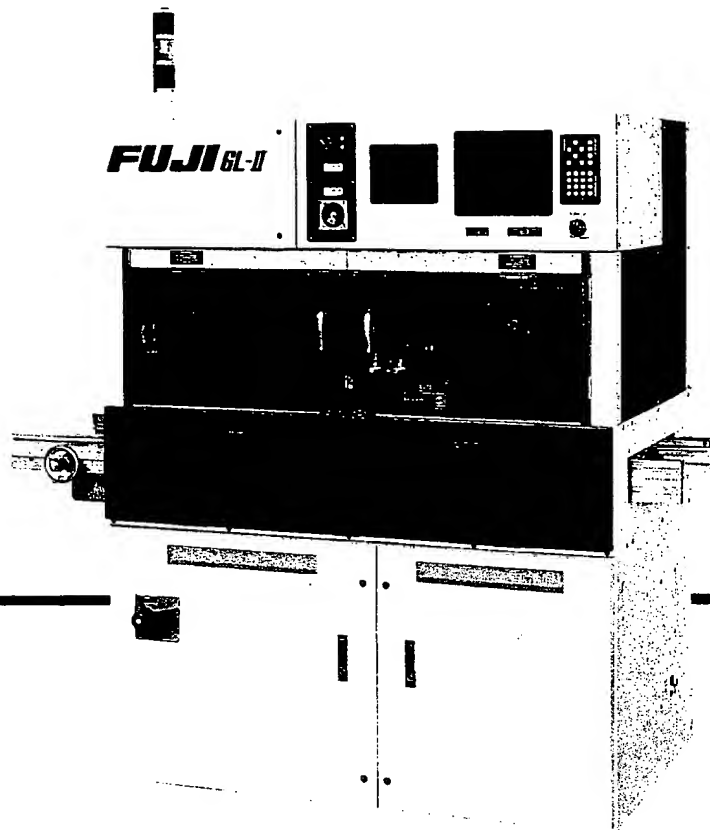### ■Glue Dot Feedback Control

Dispensing of a consistent volume of glue is greatly influenced by the temperature, viscosity, and age of the glue. To assure consistent glue dot size, the FGL II's CCD camera reads the glue dot, and the machine adjusts the glue dispensing volume accordingly.

■Programmable Syringe Action

The FGL II is equipped with two syringes. Both the up/down action and the rotation of the syringes are controlled by servomotors, enabling a short cycle time while providing the flexible programming necessary for many parts. Dispensing time can also be set in increments of 0.01 seconds (1-99) to best suit the parts or needle diameter.
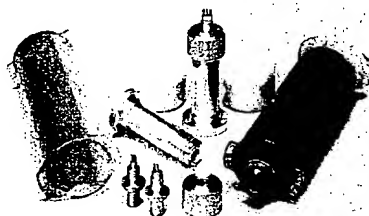
■In-line System Compatibility

The FGL II, like all Fuji equipment, has a built-in conveyor transport. As an independent unit capable of readily changing to "Pass" mode, the FGL II provides easy process flexibility.

FUJI GL-II

■High Efficiency Line Production System

The optional HELPS function automatically changes the conveyor width and operable dispensing program according to the incoming board. It also prompts the operator with messages to ensure a suitable and timely changeover for the next product. For users with a high product mix, HELPS is indispensable.

Disposable Syringes
● Throw-away syringes eliminate the inconvenience of cleaning and preparing syringes for reuse.
● Syringes can be received from the adhesive maker filled and bled, thereby preventing air bubbles from entering the glue.
● Fuji offers an optional centrifuge to bleed syringes of air bubbles prior to use.

Assortment of Needles
● The two types needles, single and twin, are each available in multiple configurations of diameter, pitch, and number of stoppers.

＊Syringes and needles compatible with FGL V

STANDARD SPECIFICATIONS

Model	FGL II-4000
Board dimensions	Max 457 x 356 mm (18"x14") Min 90 x 50 mm.
Gluing points	Max 5000 sequences/program
Gluing speed	0.2 sec/shot
Gluing accuracy*	±0.15 mm
PCB handling time	5 sec
Power supply	3-phase 200 V ~ 480 V AC 5 KVA
Air consumption	5 kg/cm².100 Nℓ /min
External dimensions	L: 1770 mm W: 900 mm (Cooler excluded) H: 1700 mm (Signal tower excluded)
Net weight	Approx. 900 kg
Options	● Cooler ● Centrifuge ● High-Efficiency Line Production

*Results achieved using fiducial marks

Official name of the FGL II is FUJI GL-II